

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,712

DATE: 01/19/2002 TIME: 11:55:42

Input Set : A:\29772SEQL.txt.txt

Output Set: N:\CRF3\01182002\I700712.raw

## ENTERED

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4 <110> APPLICANT: SBL Vaccin AB
      6 <120> TITLE OF INVENTION: Method of producing thy A- strains of Vibrio cholerae,
              such strains and their use.
      9 <130> FILE REFERENCE: 29772
     11 <140> CURRENT APPLICATION NUMBER: US 09/700,712
C--> 12 <141> CURRENT FILING DATE: 2001-11-13
     14 <150> PRIOR APPLICATION NUMBER: SE 9801852-6
     15 <151> PRIOR FILING DATE: 1998-05-26
     17 <160> NUMBER OF SEQ ID NOS: 5
     19 <170> SOFTWARE: PatentIn Ver. 2.1
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 2909
    23 <212> TYPE: DNA
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    45 ctgggatget aatgccaatt taaaccaagc atggetcaac aateettace gtaaaggtga 1140
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   52 catttaccaa gatcaactcg aattgatgcg cgatgtgcag ctaaaacgtg agccattccc 1560
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 57 aatgctgccg gggatgacga caaacacacc caataagtaa ctcaccacca ccattttgct 1860
 58 cttacaagcc caagttgaga tgagctcagc acctttaata ggcagttcgc gtaagaaagg 1920
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 63 cactgtacet gaagcaatac cgtgtagtgg geeteggeea ategeatttt gtagaattte 2220
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86 tgctatgtgg ttggccaatc gccgagcgga tcgcgcgggc agtggttgga cgcgtgagca 180
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91 attcggtttg gggatgggac gtatcggtaa ctttatgaat agtgaacttt ggggacgagt 480
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94 tggtaaacct cgtccgctag gcagcgtatc cggactgttt ttagctggat acggtacatt 660
95 ccgcttcctt gtggaatacg tccgtgagcc agatgctcag ttgggtctgt ttggtggctt 720
96 catttcaatg gggcaaatcc tctccttacc tatggtgatc atcggtattt tgatgatggt 780
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101 <211> LENGTH: 1222
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108 ccggggatga cgacaaacac acccaataag taactcacca ccaccatttt gctcttacaa 180
109 gcccaagttg agatgagctc agcaccttta ataggcagtt cgcgtaagaa aggaataccg 240
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118 ctcatatcgc cagtcgcaag cagaggcgaa acgagccagt gtgagacttt ctctaaaatg 780
119 ccaaacatca tttctagagg taggaagatc agcaccgcga gaagattgaa aaaatcgtgg 840
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130 <211> LENGTH: 283
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138 Trp Val Glu Asn Glu Arg Thr Gly Lys Arg Cys Leu Thr Val Ile Asn
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141 Ala Asp Leu Thr Tyr Asp Val Gly Asn Asn Gln Phe Pro Leu Val Thr
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144 Thr Arg Lys Ser Phe Trp Lys Ala Ala Val Ala Glu Leu Leu Gly Tyr
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147 Ile Arg Gly Tyr Asp Asn Ala Ala Asp Phe Arg Gln Leu Gly Thr Lys
148
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150 Thr Trp Asp Ala Asn Ala Asn Leu Asn Gln Ala Trp Leu Asn Asn Pro
153 Tyr Arg Lys Gly Glu Asp Asp Met Gly Arg Val Tyr Gly Val Gln Gly
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                                    105
156 Arg Ala Trp Ala Lys Pro Asp Gly Gly His Ile Asp Gln Leu Lys Lys
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159 Ile Val Asp Asp Leu Ser Arg Gly Val Asp Asp Arg Gly Glu Ile Leu
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162 Asn Phe Tyr Asn Pro Gly Glu Phe His Met Gly Cys Leu Arg Pro Cys
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                                            155
165 Met Tyr Ser His His Phe Ser Leu Leu Gly Asp Thr Leu Tyr Leu Asn
                    165
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168 Ser Thr Gln Arg Ser Cys Asp Val Pro Leu Gly Leu Asn Phe Asn Met
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171 Val Gln Val Tyr Val Phe Leu Ala Leu Met Ala Gln Ile Thr Gly Lys
174 Lys Pro Gly Leu Ala Tyr His Lys Ile Val Asn Ala His Ile Tyr Gln
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                             215
 177 Asp Gln Leu Glu Leu Met Arg Asp Val Gln Leu Lys Arg Glu Pro Phe
                         230
                                             235
 180 Pro Ala Pro Gln Phe His Ile Asn Pro Lys Ile Lys Thr Leu Gln Asp
                     245
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183 Leu Glu Thr Trp Val Thr Leu Asp Asp Phe Asp Val Thr Gly Tyr Gln
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186 Phe His Asp Pro Ile Gln Tyr Pro Phe Ser Val
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191 <210> SEQ ID NO: 5
192 <211> LENGTH: 271
193 <212> TYPE: PRT
194 <213> ORGANISM: Vibrio cholerae
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203 Gly Phe Leu Phe Ala Met Trp Leu Ala Asn Arg Arg Ala Asp Arg Ala
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206 Gly Ser Gly Trp Thr Arg Glu Gln Val Ser Asp Leu Leu Phe Ala Gly
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209 Phe Leu Gly Val Val Ile Gly Gly Arg Val Gly Tyr Val Ile Phe Tyr
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212 Asn Phe Asp Leu Phe Leu Ala Asp Pro Leu Tyr Leu Phe Lys Val Trp
215 Thr Gly Gly Met Ser Phe His Gly Gly Leu Leu Gly Val Ile Thr Ala
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218 Met Phe Trp Tyr Ala Arg Lys Asn Gln Arg Thr Phe Phe Gly Val Ala
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221 Asp Phe Val Ala Pro Leu Val Pro Phe Gly Leu Gly Met Gly Arg Ile
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224 Gly Asn Phe Met Asn Ser Glu Leu Trp Gly Arg Val Thr Asp Val Pro
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227 Trp Ala Phe Val Phe Pro Asn Gly Gly Pro Leu Pro Arg His Pro Ser
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230 Gln Leu Tyr Glu Phe Ala Leu Glu Gly Val Val Leu Phe Phe Ile Leu
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233 Asn Trp Phe Ile Gly Lys Pro Arg Pro Leu Gly Ser Val Ser Gly Leu
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236 Phe Leu Ala Gly Tyr Gly Thr Phe Arg Phe Leu Val Glu Tyr Val Arg
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239 Glu Pro Asp Ala Gln Leu Gly Leu Phe Gly Gly Phe Ile Ser Met Gly
240 225
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242 Gln Ile Leu Ser Leu Pro Met Val Ile Ile Gly Ile Leu Met Met Val
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VERIFICATION SUMMARY

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Input Set : A:\29772SEQL.txt.txt
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

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Office of Initial Patent Examination -- Scanning Division



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Page(s) 5.076 of RAW SEQUENCE 1 STINGWERE not present for scanning. (Document title)

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